

Truncated Cubes

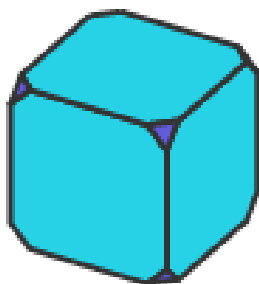
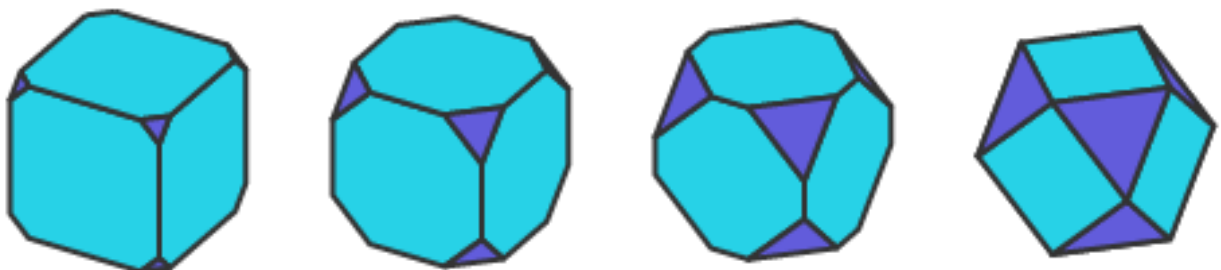
A cube has **6 faces**, **8 vertices** and **12 edges**.

This is a **cube** with light blue faces.



When the corners are cut off, they reveal dark blue faces.

Here are four truncated (cut) cubes.



This first truncated cube has **14 faces**.

It has **6 octagonal (8 sides) light blue faces**.

It has **8 triangular dark blue faces**.

It has **36 edges** and **24 vertices**.

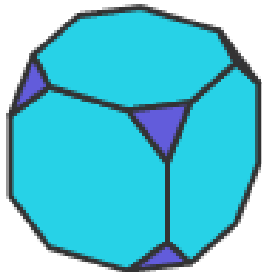
Task – Look carefully at the other truncated cubes.

How many faces each 3-D shape has in total?

What shape are the light blue faces? How many are there?

What shape are the dark blue faces? How many are there?

How many edges and vertices?

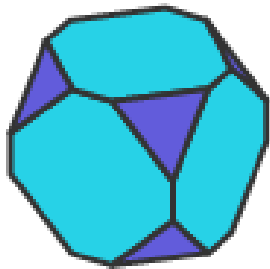


This truncated cube has **14 faces**.

It has **6 octagonal** (8 sides) light blue faces.

It has **8 triangular** dark blue faces.

It has **36 edges** and **24 vertices**.



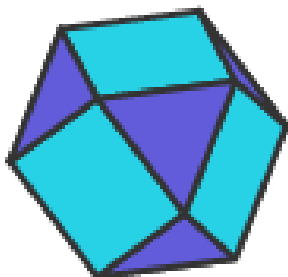
Same as above

This truncated cube has **14 faces**.

It has **6 octagonal** (8 sides) light blue faces.

It has **8 triangular** dark blue faces.

It has **36 edges** and **24 vertices**.



This truncated cube has **14 faces**.

It has **6 squared/rectangular** light blue faces.

It has **8 triangular** dark blue faces.

It has **24 edges** and **12 vertices**.